EXHIBIT S

Case 4:14-cv-03645-CW Document 59-21 Filed 01/29/15 Page 2 of 26

Doc code :IDS Doc description: Information Disclosure Statement (IDS) Filed PTO/SB/08a (03-08)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 11858086 Filing Date 2007-09-19 First Named Inventor Sreenath Mambakkam Art Unit 2841 Examiner Name Levi, Dameon E. Attorney Docket Number 76706-200108

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Case 4:14-cv-03645-CN INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)			W Document 59-21 Application Number	File	e d 01/29/15 Page 3 11858086	3 of 26		
			Filing Date		2007-09-19			
			First Named Inventor S		eenath Mambakkam			
			Art Unit	•	2841			
			Examiner Name		Dameon E.			
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English language translation is attached.

Case 4:14-cv-03645-C\	W Document FO 21	Гilo	d 01/20/1E Dogg 4 of 26
Case 4.14-cv-03045-Cv	Application Number	FIIE	d 01/29/15 Page 4 of 26 11858086
INFORMATION BIOOL COURT	Filing Date		2007-09-19
INFORMATION DISCLOSURE	First Named Inventor	Sreen	ath Mambakkam
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		2841
(Notion Submission under or or it not)	Examiner Name Levi,		Dameon E.
	Attorney Docket Numb	er	76706-200108

CERTIFICATION STATEMENT

Plea	ase see 37 CFR 1	.97 and 1.98 to make the appropriate sele	ction(s):									
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).											
OR	1											
	That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).											
	See attached cer	rtification statement.										
X	Fee set forth in 3	7 CFR 1.17 (p) has been submitted herew	rith.									
	None											
	ignature of the ap n of the signature.	plicant or representative is required in acc	ATURE ordance with CFR 1.33, 10.	18. Please see CFR 1.4(d) for the								
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Nan	ne/Print	Edward P. Heller III	Registration Number	29,075								
pub 1.14 app requ Pate	lic which is to file (1. This collection i lication form to the uire to complete the ent and Trademan	rmation is required by 37 CFR 1.97 and 1.97 and 1.97 and 1.98 (and by the USPTO to process) an applicate sestimated to take 1 hour to complete, including USPTO. Time will vary depending upon his form and/or suggestions for reducing the Commerce, FO FORMS TO THIS ADDRESS. SEND	tion. Confidentiality is gove cluding gathering, preparing the individual case. Any co is burden, should be sent to P.O. Box 1450, Alexandria, N	erned by 35 U.S.C. 122 and 37 CFR and submitting the completed emments on the amount of time you the Chief Information Officer, U.S. VA 22313-1450. DO NOT SEND								

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- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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 - 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal								
Application Number:	11858086							
Filing Date:	19	-Sep-2007						
Title of Invention:	SMARTCONNECT UNIVERSAL FLASH MEDIA CARD ADAPTERS							
First Named Inventor/Applicant Name:	Sr	eenath Mambakka	ım					
Filer:	Ec	lward Peter Heller/	Mark Salvator	re				
Attorney Docket Number:	076706-200108/US							
Filed as Large Entity								
Utility Filing Fees								
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
Basic Filing:								
Pages:								
Claims:								
Claims in excess of 20	1202		6	50	300			
Independent claims in excess of 3	1201 2 210 420							
Miscellaneous-Filing:								
Petition:								
Patent-Appeals-and-Interference:								
Post-Allowance-and-Post-Issuance:								

Case 4:14-cv-03645-CW Docume Description	Fee Code	d 01/29/15 Quantity	Page 7 of 2 Amount	Sub-Total in USD(\$)		
Statutory disclaimer	1814	1	130	130 130		
Extension-of-Time:						
Miscellaneous:						
Submission- Information Disclosure Stmt	1806 1		180	180		
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	cknowledgement Receipt
EFS ID:	3109213
Application Number:	11858086
International Application Number:	
Confirmation Number:	2084
Title of Invention:	SMARTCONNECT UNIVERSAL FLASH MEDIA CARD ADAPTERS
First Named Inventor/Applicant Name:	Sreenath Mambakkam
Customer Number:	73319
Filer:	Edward Peter Heller/Mark Salvatore
Filer Authorized By:	Edward Peter Heller
Attorney Docket Number:	076706-200108/US
Receipt Date:	04-APR-2008
Filing Date:	19-SEP-2007
Time Stamp:	19:37:39
Application Type:	Utility under 35 USC 111(a)
Payment information:	

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1030
RAM confirmation Number	3680
Deposit Account	
Authorized User	

File Listing:

Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Amendment - After Non-Final	200108-OR1.pdf	2879775	no	14
·	Rejection	200100 01111.pc.	233bd76b49fe961e79eeebcc55c8a4f6 454a9b4f		
Warnings:					
Information					
2	Information Disclosure Statement	200108-IDS_2.pdf	754587	no	4
	(IDS) Filed		1f47d41ad8653be638f63c686ea333eb 9637dbac		
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3	NPL Documents	200108-NPR.pdf	10982418	no	90
3	NEL DOCUMENTS	200100-NF N.pai	8b52d297ce1b5cf88569b80499299eb7 3661d1f1		30
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4	Terminal Disclaimer Filed	200108-TermDiscl.pdf	745021	no	2
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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Sreenath Mambakkam et al. Examiner: Levi, Dameon E.

Application No.: 11/858,086 **Art Unit:** 2841

Filed: September 19, 2007 Confirmation: 2084

Title: SMARTCONNECT UNIVERSAL FLASH MEDIA CARD ADAPTERS

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT

Responsive to the action dated March 14, 2008, please enter the following:

- 1. Amendments to the Specification begin on page 2 of this paper.
- 2. Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper.
 - 3. Remarks/Arguments begin on page 10 of this paper.

A terminal disclaimer is submitted with this amendment.

IN THE SPECIFICATION

Please replace paragraph 0031 with the following amended paragraph:

mounted thereon. Planar element 330 is adjacent to bottom planar element 320. Standard connector 340, which may be for example, a compact flash, PCMCIA, USB, or serial ATA connector is surface-mounted to planar element 330. Interconnects 312 that electrically connect the standard connector 340 to contact pins 315 are also located on planar element 330. The adapter connects the proper pin from the contact pins to planar element 330. Simple wiring such as individual wires, flat cables, printed-circuit board (PCB), or wiring traces can be used. In accordance with an embodiment of the present invention, the need for a straddle-mounted PCB, and its associated manufacturing costs and complexity, is eliminated. Moreover, by eliminating the layers of a straddle-mount configuration, registration accuracy is improved. For one embodiment, a single PCB may comprise bottom planar element 320 and planar element 330.

Please replace paragraph 0036 with the following amended paragraph:

Thus, it is possible to accommodate SmartMedia, MMC/SD, and Memory Stick with a 21-pin connector (i.e., instead of 41 pins) by multiplexing the available pins. For one embodiment, the controller chip (e.g., controller chip 231) differentiates the pin configuration for each flash memory media type. The controller may include a shifter connected to the data and clock signals from the MMC/SD and Memory Stick flashmemory cards. The shifter may clock one bit (serial) or word (parallel) of data each clock pulse. A cyclical redundancy check (CRC) can be performed on the data to detect errors.

Please replace paragraph 0039 with the following amended paragraph:

For such an embodiment, pin 1 is a ground pin and pin 18 is a power pin for each connector. The data lines for the SmartMedia and xD interface cards have a parallel data bus of 8 bits denoted as DO - D7 that occupy pins 10 - 17. These data bus lines are multiplexed to serve as card-detect lines for the remaining media types. As described in application number 09/610,904 (now U.S. patent number 6,438, 638), the signal lines to the controller are normally pulled high. When a card is inserted, the card pulls its connected pins low. Detection of card type is determined by detection of which of the mapped card detect lines is pulled low as illustrated in Figure 5, or by the (binary) state of data or other card pins mapped to a common set of controller pins as described in the aforesaid parent application. See, e.g., Figs. 4A-E thereof. While no separate address bus is provided, address and data are multiplexed.

IN THE CLAIMS

- 1-19. (Canceled)
- 20. (Previously presented) A media card adapter comprising:
 - a first planar element having an upper surface and a lower surface, the first planar element comprising molded plastic;
 - a second planar element having an upper surface and a lower surface, the second planar element comprising molded plastic, wherein the first planar element and the second planar element are disposed such that a port is formed between the lower surface of the first planar element and the upper surface of the second planar element, the port configured to receive a memory media card; and
 - a set of contact pins protruding from the lower surface of the first planar element or the upper surface of the second planar element such that the set of contact pins are disposed within the port, the set of contact pins capable of contacting a set of memory media card contacts, wherein the adapter is operable to map a subset of the set of contact pins to a set of signal lines or power lines, based on an identified type of a memory media card..
- 21. (Previously presented) The media card adapter of claim 20, wherein the first planar element and the second planar element are formed from a single piece of molded plastic.
- 22. (Previously presented) The media card adapter of claim 20, wherein the adapter is operable to receive and read a memory media card comprising at least one of xD, MMC/SD, Memory Stick, miniSD, RSMMC, and MS Duo.

- 23. (Previously presented) The media card adapter of claim 20 further comprising a controller external to the adapter to map the subset of the set of contact pins to the set of signal lines or power lines, based on the identified type of the memory media card.
- 24. (Previously presented) The media card adapter of claim 20 further comprising a controller within the adapter to map the subset of the set of contact pins to the set of signal lines or power lines, based on the identified type of the memory media card.
- 25. (Previously presented) The media card adapter of claim 20 wherein the set of contact pins are formed from injected contacts within the molded plastic of the first planar element or the second planar element.
- 26. (Previously presented) The media card adapter of claim 20 wherein the contact pins are formed such that a terminal end of a contact pin of the set of contact pins is configured to be oriented away from the set of memory media card contacts during removal of the memory media card.
- 27. (Previously presented) A system comprising:
 - a multi-memory media adapter to read data from at least one of a plurality of memory media cards, the multi-memory media adapter comprising a first planar element having an upper surface and a lower surface, the first planar element comprising molded plastic;
 - the adapter comprising a second planar element having an upper surface and a lower surface, the second planar element comprising molded plastic, wherein the first planar element and the second planar element are disposed such that a port is formed between the lower surface of the first planar element and the upper surface of the second planar element, the port configured to receive a memory media card; and the adapter further comprising a set of contact pins protruding from the lower surface of the first planar element or the upper surface of the second planar element such that the set of contact pins are disposed within the port, the set of contact pins capable of contacting a set of memory media card contacts, wherein the adapter is operable to

map a subset of the set of contact pins to a set of signal lines or power lines, based on an identified type of a memory media card.

- 28. (Previously presented) The system of claim 27, wherein the first planar element and the second planar element are formed from a single piece of molded plastic.
- 29. (Previously presented) The system of claim 27, wherein the adapter is operable to receive and read a memory media card comprising at least one of xD, MMC/SD, Memory Stick, miniSD, RSMMC, and MS Duo.
- 30. (Previously presented) The system of claim 27 further comprising a controller external to the adapter to map the subset of the set of contact pins to the set of signal lines or power lines, based on the identified type of the memory media card.
- 31. (Previously presented) The system of claim 27 further comprising a controller within the adapter to map the subset of the set of contact pins to the set of signal lines or power lines, based on the identified type of the memory media card.
- 32. (Previously presented) The system of claim 27 wherein the set of contact pins are formed from injected contacts within the molded plastic of the first planar element or the second planar element.
- 33. (Previously presented) The system of claim 27 wherein the contact pins are formed such that a terminal end of a contact pin of the set of contact pins is configured to be oriented away from the set of memory media card contacts during removal of the memory media card.
- 34. (Previously presented) A media card adapter comprising:
 - a first planar element having an upper surface and a lower surface, the first planar element comprising molded plastic;
 - a second planar element having an upper surface and a lower surface, the second planar element comprising molded plastic, wherein the first planar element and the second

- planar element are disposed such that a port is formed between the lower surface of the first planar element and the upper surface of the second planar element, the port configured to receive a memory media card;
- a set of contact pins protruding from the lower surface of the first planar element or the upper surface of the second planar element such that the set of contact pins are disposed within the port, the set of contact pins capable of contacting a set of memory media card contacts; and
- a means to map a subset of the set of contact pins to a set of signal lines or power lines, based on an identified type of a memory media card.
- 35. (Previously presented) The media card adapter of claim 34, wherein the first planar element and the second planar element are formed from a single piece of molded plastic.
- 36. (Previously presented) The media card adapter of claim 34, wherein the adapter is operable to receive and read a memory media card comprising at least one of xD, MMC/SD, Memory Stick, miniSD, RSMMC, and MS Duo.
- 37. (Previously presented) The media card adapter of claim 34, wherein the means to map the subset of the set of contact pins to the set of signal lines or power lines, comprises a controller external to the adapter.
- 38. (Previously presented) The media card adapter of claim 34, wherein the means to map the subset of the set of contact pins to the set of signal lines or power lines, comprises a controller within the adapter.
- 39. (Previously presented) A method comprising:

A port of a media card adapter receiving a memory media card, the port comprising of a first planar element of molded plastic and a second planar element of molded plastic, and a set of contact pins protruding from a lower surface of the first planar element and an upper surface of the second planar element, the set of contact pins capable of contacting a set of memory media card contacts of the media card;

identifying a type of the media card inserted from a plurality of memory media card types; and

mapping a subset of the set of contact pins to a set of signal lines or power lines based on the identified type of memory media card.

- 40. (Previously presented) The method of claim 39, wherein the first planar element and the second planar element are formed from a single piece of molded plastic.
- 41. (Previously presented) The method of claim 39, wherein the identifying the type of media card inserted further comprises identifying the media card inserted as at least one of xD, MMC/SD, Memory Stick, miniSD, RSMMC, and MS Duo.
- 42. (Previously presented) The method of claim 39, wherein the mapping the subset of the set of contact pins to a set of signal lines or power lines, based on an identified type of a memory media card, is performed by a controller external to the adapter.
- 43. (Previously presented) The method of claim 39, wherein the mapping the subset of the set of contact pins to a set of signal lines or power lines, based on an identified type of a memory media card, is performed by a controller internal to the adapter.
- 44. (New) Apparatus comprising:

a housing having a port and a surface;

an interconnection means having a plurality of interconnection pins;

one or more sets of contact pins mounted on said surface at locations adapted to interface with the electrical contacts of a corresponding one of a plurality of different types of memory media cards when inserted into said port;

a set of signal lines connected to said interconnection pins;

means for identifying the type of memory card inserted into said port;

means for mapping power, ground or data signals between said interconnection pins and said one or more contact pins depending upon the identification of the type of memory card inserted into said port.

- 45. (New) Apparatus according to claim 44 where the means for mapping comprises a controller.
- 46. (New) Apparatus according to claim 44 wherein said means for mapping is selected from a group consisting of simple wires, flat cables, printed circuit board interconnections, or wiring traces.
- 47. (New) Apparatus comprising:
 - a housing having a port and a surface;
 - a plurality of sets of contact pins mounted on said surface at locations adapted to interface with the electrical contacts of a corresponding one of a plurality of different type memory media cards when inserted into said port;
 - a set of signal lines connected to an interconnection means;
 - means for identifying the type of memory card inserted into said port;
 - means for mapping power, ground or data signals between said interconnection means and said one or more contact pins depending upon the identification of the type of memory card inserted into said port.
- 48. (New) Apparatus according to claim 47 where said means for mapping comprises a controller.
- 49. (New) Apparatus according to claim 47 wherein said means for mapping is selected from a group consisting of simple wires, flat cables, printed circuit board interconnections, or wiring traces.

REMARKS

In his action dated March 14, 2008, the examiner rejected pending claims 20-43 on two grounds: double patenting over co-owned US patent 7, 295, 443, and on prior art as obvious over Hung Ju, US patent number 6,402,558, filed November 13, 2001, in view of Lu et al., US patent number 6,738,259. In response, applicant herewith submits a terminal disclaimer thereby obviating the double patenting rejection and traverses the prior art rejection on the basis that the claimed invention is supported in a "parent" application, to wit: application number 09/610, 904, filed July 6, 2000, now US patent 6,438,638. In addition, applicant adds new claims 44-49 and amends the specification to incorporate subject matter disclosed in the aforementioned parent application 09/610,904.

In part, Hung Ju was cited against each of the independent claims 20, 27, 34 and 39, for its showing of

wherein the adapter is operable to map a subset of the set of contact pins to a set of signal lines or power lines, based on an identified type of a memory media card(see column 2, lines 28-33, see Abstract).

Action dated 3/14/2008, at 11. However, this limitation is fully supported in "parent" application number 09/610,904, filed July 6, 2000, the contents are which was also incorporated by reference. See e.g. figures 3B, 4A-E, 5, 6 and 10 of 09/610,904, and the discussion in connection thereto. Referring to figure 3B, the figure shows a plurality of differing flash media cards inserted into a connector 44 (some by means of passive adapters 30, 32 and 34), which in turn is connected to a controller 40. The controller 40 controls/decodes the signals and "provides" them to the host interface 46. When one of the flash media cards is other than a CompactFlash card, the passive adapters maps the pins on the smaller media cards to the CompactFlash connector 44 by means of "wires, flat cables, printed circuit board (PCB), or wiring traces." The pin mapping is illustrated in figure 5.

The adapter connects the proper pin on the smaller interface to the CompactFlash pin number shown in Figure 5. Simple wiring such as individual wires, flat cables, printed-circuit board (PCB), or wiring traces can be used.

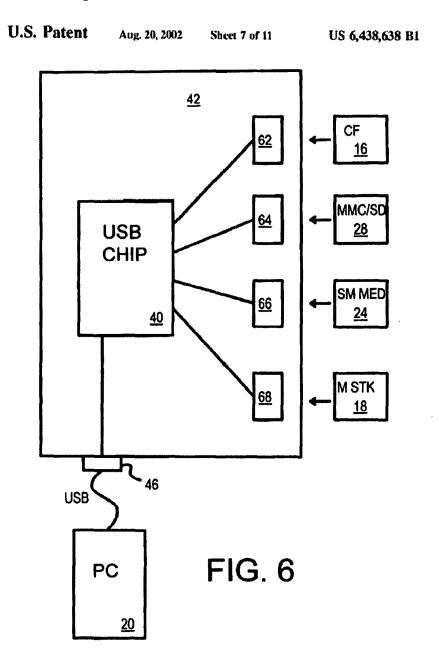
Specification-as-filed, application number 09/610,904, at 14, lines 9-12. The controller detects the type of card inserted into the CompactFlash connector 44 by determining the signal levels present on pins A0 and A1 (Fig. 5) substantially as illustrated in the Figs. 4A-4E. When the controller 40 is connected to a serial card such as MMC/SD or Memory Stick (through, for example, connector 64 or 68, respectively, as shown in figure 6), it detects serial data using a shift register 98 that has the following functionality:

Shifter 98 is connected to the data and clock signals from connectors 64, 68. When data is read from the flash-memory card, a clock is pulsed to synchronize the data transfer. Shifter 98 clocks in one bit (serial) or word (parallel) of data for each clock pulse. A cyclical-redundancy-check (CRC) can be performed on the data to detect errors. CPU 92 can request re-transmission of data from the flash-memory card when an error is detected.

Specification-as-filed, application number 09/610,904, at 20, lines 19-24. This permits serial cards with more than one data line to interface with the controller. It is noted that seven-contact MMC at the time the parent application was filed, July, 2000, used only one serial data line, output through contact pin number 7. However, the nine-contact Secure Digital (SD), which connects seven of its pins to the same contact pins as the MMC card, could have either 1 or four data lines. Its bit number 1 connected to contact pin 7, the same pin as used by the MMC card. SD serial bits 2 and 3 were connected to contact pins 8 and 9, not used by MMC. However, bit 3 was connected to contact pin 1, defined as open by the MMC card. See, e.g., http://en.wikipedia.org/wiki/Secure_Digital_card for a further explanation.

While the shared contact pins largely have the same functions, the different function of pin number 1 depending on card type required different signal mapping. The pin mapped to shifter 98 when an SD card was connected, but not when an MMC card was connected. The shifter 98 would then clock the mapped SD serial lines, including signals mapped from contact pins 1, in parallel. It would not clock pin number 1 if an MMC card was present.

The use by the SD card and the MMC card of the same set of card contact pins is disclosed in 09/610,904. See, e.g., its Fig. 6 (set forth below.) Connector 64 accepts either MMC or SD (Secure Digital). The signals from the card are mapped to chip 40. Shifter 98 is located in chip 40. See Fig. 10.



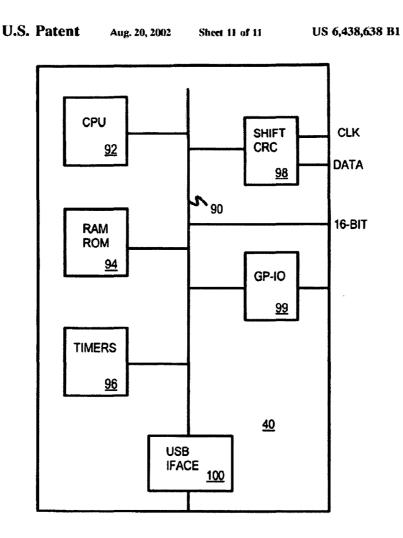


FIG. 10

The claim limitation requiring different "contact pin to signal line mapping" based on an "identified type" of media card is supported in the specification of parent application 09/610,904. To the extent Hung Ju is used to show such subject matter, it is not prior art to the independent claims of the present application. Applicant respectfully traverses the rejection of claims 20-43 over Hung Ju.

The above amendment to the specification incorporates the substance of the abovequoted paragraphs (previously incorporated by reference) into the current specification at Case 4:14-cv-03645-CW Document 59-21 Filed 01/29/15 Page 23 of 26

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paragraphs 0031 and 0036, and adds brief description to paragraph 0039 of card detection taken

both from the 09/610,904 application and from Figure 5 of the present application.

New claims 44-49 claim the invention in more traditional form given the admonishment

of the examiner that the Office does not consider phrases beginning with "configured to" or the

equivalent to recite positive limitations.

Applicant also wishes to bring the examiner's attention to potential prior art. During a

confidential discussion with a third-party concerning the licensing of a related patent that took

place on March 19, 2008 in Lexington, Kentucky, the third-party stated that "the Lexmark 5770

printer (first introduced in 1998) and the Kodak/Lexmark personal picture maker 200 printer

(first introduced in 2000) both utilized memory card sockets constructed from molded plastic."

The accompanying IDS includes a Lexmark 5770 manual that illustrates card connectors at page

5-3. However, the material of the connector housing is not discussed.

Applicant respectfully submits that all claims are in a condition for allowance.

Respectfully submitted,

Date: April 3, 2008

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In re Application of: Sreenath Mambakkam, et al.	
Application No.: 11/858,086	
Filed: September 19, 2007	
For: Smartconnect Universal Flash Media Card Adapters	
except as provided below, the terminal part of the statutory term of any patent granted on the instant	prior patent is defined in 35 U.S.C. 154 owner hereby agrees that any patent so prior patent are commonly owned. This
In making the above disclaimer, the owner does not disclaim the terminal part of the term of any paten would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the patent is presently shortened by any terminal disclaimer," in the event that said prior patent later: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid by a court of competent jurisdiction; is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; has all claims canceled by a reexamination certificate; is reissued; or is in any manner terminated prior to the expiration of its full statutory term as presently shortened to	prior patent, "as the term of said prior
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2. The undersigned is an attorney or agent of record. Reg. No. 29,075	
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875							Α	Application or Docket Number 11/858,086			ing Date 19/2007	To be Mailed
APPLICATION AS FILED – PART I (Column 1) (Column 2)								SMALL	ENTITY	OR		HER THAN ALL ENTITY
	FOR NUMBER FILED NUMBER EXTRA							RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
	BASIC FEE (37 CFR 1.16(a), (b),	or (c))	N/A			N/A		N/A			N/A	
	SEARCH FEE (37 CFR 1.16(k), (i), (or (m))	N/A			N/A		N/A			N/A	
	EXAMINATION FE (37 CFR 1.16(o), (p),		N/A			N/A		N/A			N/A	
	ΓAL CLAIMS CFR 1.16(i))		mir	nus 20 = *				x \$ =		OR	x \$ =	
	EPENDENT CLAIM CFR 1.16(h))			inus 3 = *				X \$ =			x \$ =	
	APPLICATION SIZE (37 CFR 1.16(s))	shee is \$2 addi	ets of pap 250 (\$125 tional 50 s	specification and drawings exceed 100 is of paper, the application size fee due 50 (\$125 for small entity) for each onal 50 sheets or fraction thereof. See S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
	MULTIPLE DEPEN	IDENT CLAIM PR	RESENT (3	7 CFR 1.16(j))								
* If	the difference in colu	umn 1 is less than	zero, ente	r "0" in colum	n 2.			TOTAL			TOTAL	
	APP	(Column 1)	AMENE	(Column 2		(Column 3)		SMAL	L ENTITY	OR		ER THAN ALL ENTITY
AMENDMENT	04/04/2008	008 REMAINING NUMBE PREVIO		HIGHEST NUMBER PREVIOUS PAID FOR	SLY	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
ME	Total (37 CFR 1.16(i))	* 30	Minus	** 24		= 6		x \$ =		OR	X \$50=	300
	Independent (37 CFR 1.16(h))	* 6	Minus	***4		= 2		x \$ =		OR	X \$210=	420
√ME	Application Size Fee (37 CFR 1.16(s))											
	FIRST PRESEN	NTATION OF MULTII	PLE DEPEN	DENT CLAIM (3	37 CFR	1.16(j))				OR		
								TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	720
		(Column 1)		(Column 2		(Column 3)						
L		CLAIMS REMAINING AFTER AMENDMENT		HIGHES NUMBEF PREVIOUS PAID FOI	R SLY	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
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AMENDMENT	Independent (37 CFR 1.16(h))	*	Minus	***		=		X \$ =		OR	x \$ =	
EN	Application Si	ize Fee (37 CFR 1	I.16(s))									
AM	FIRST PRESEN	NTATION OF MULTII	PLE DEPEN	DENT CLAIM (3	37 CFR	1.16(j))				OR		
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** If	* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

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